

Test Mode: IEEE 802.11ax(HE80) - W56

Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5530	5610	5690	Low/Mid/High of test frequency range
Limitation of Collateral	MHz	526.64	926.28	305.48	30MHz~1000MHz
	nW	0.0150	0.0154	0.0198	Limit ≤ 4 nW(-54 dBm)
Emission of Receiver	MHz	24800.00	26000.00	26000.00	1000MHz~26000MHz
	nW	2.0137	2.3335	2.5763	Limit ≤ 20 nW(-47 dBm)

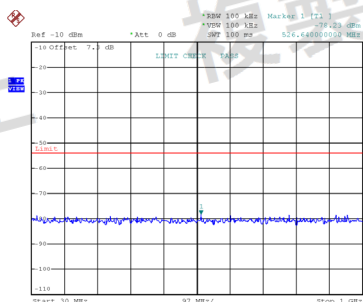
Note:

Emission value = SA measurement value + Directional gain + cable loss

Directional gain = 10 log (Ant X)

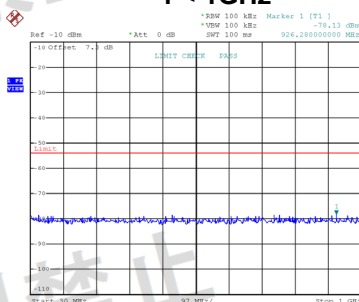
X = the total number of antennas

CH106



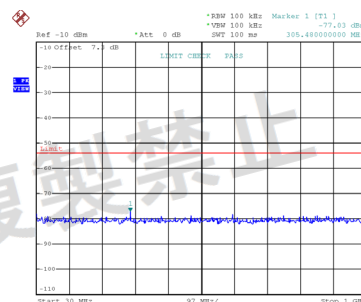
Date: 3.MAR.2023 19:08:10

CH122
f < 1GHz



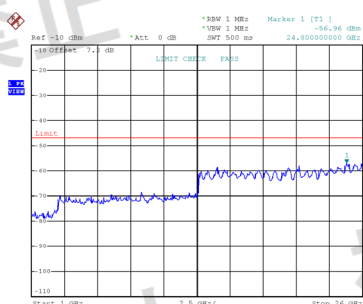
Date: 3.MAR.2023 19:08:31

CH138

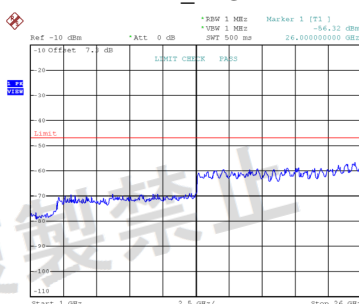


Date: 3.MAR.2023 19:08:54

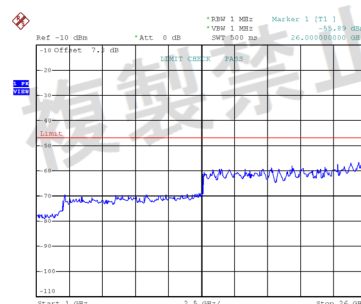
f ≥ 1GHz



Date: 3.MAR.2023 19:08:20



Date: 3.MAR.2023 19:08:40



Date: 3.MAR.2023 19:09:03

Test Mode: IEEE 802.11ax(HE160) - W56

Test Voltage		Normal Voltage	Remarks
Test Frequency	MHz	5570	Low/Mid/High of test frequency range
Limitation of	MHz	515.00	30MHz~1000MHz
Collateral	nW	0.0145	Limit ≤ 4 nW(-54 dBm)
Emission of	MHz	26000.00	1000MHz~26000MHz
Receiver	nW	2.1232	Limit ≤ 20 nW(-47 dBm)

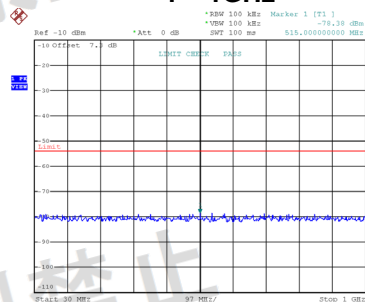
Note:

Emission value = SA measurement value + Directional gain + cable loss

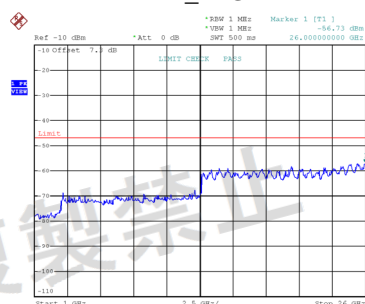
Directional gain = 10 log (Ant X)

X = the total number of antennas

CH114 f < 1GHz



f ≥ 1GHz



APPENDIX G - TRANSMISSION BURST LENGTH

Test Mode:	IEEE 802.11a - W52
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5180	5200	5240	Low/Mid/High of test frequency range
Transmission Burst Length	msec	1.41	1.41	1.41	Limit ≤ 8msec

Test Mode:	IEEE 802.11ac(VHT20) - W52
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5180	5200	5240	Low/Mid/High of test frequency range
Transmission Burst Length	msec	1.33	1.33	1.33	Limit ≤ 8msec

Test Mode:	IEEE 802.11ac(VHT40) - W52
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Test Voltage		Normal Voltage		Remarks
Test Frequency	MHz	5190	5230	Low/Mid/High of test frequency range
Transmission Burst Length	msec	0.66	0.66	Limit ≤ 8msec

Test Mode:	IEEE 802.11ac(VHT80) - W52
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Test Voltage		Normal Voltage		Remarks
Test Frequency	MHz	5210		Low/Mid/High of test frequency range
Transmission Burst Length	msec	0.61		Limit ≤ 8msec

Test Mode: IEEE 802.11ax(HE20) - W52

Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5180	5200	5240	Low/Mid/High of test frequency range
Transmission Burst Length	msec	2.00	2.00	2.00	Limit ≤ 8msec

Test Mode: IEEE 802.11ax(HE40) - W52

Test Voltage		Normal Voltage		Remarks
Test Frequency	MHz	5190	5230	Low/Mid/High of test frequency range
Transmission Burst Length	msec	1.03	1.03	Limit ≤ 8msec

Test Mode: IEEE 802.11ax(HE80) - W52

Test Voltage		Normal Voltage	Remarks
Test Frequency	MHz	5210	Low/Mid/High of test frequency range
Transmission Burst Length	msec	0.53	Limit ≤ 8msec

Test Mode: IEEE 802.11a - W53

Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5260	5300	5320	Low/Mid/High of test frequency range
Transmission Burst Length	msec	1.41	1.41	1.41	Limit ≤ 8msec

Test Mode: IEEE 802.11ac(VHT20) - W53

Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5260	5300	5320	Low/Mid/High of test frequency range
Transmission Burst Length	msec	1.33	1.33	1.33	Limit ≤ 8msec

Test Mode: IEEE 802.11ac(VHT40) - W53

Test Voltage		Normal Voltage		Remarks
Test Frequency	MHz	5270	5310	Low/Mid/High of test frequency range
Transmission Burst Length	msec	0.66	0.66	Limit ≤ 8msec

Test Mode: IEEE 802.11ac(VHT80) - W53

Test Voltage		Normal Voltage	Remarks
Test Frequency	MHz	5290	Low/Mid/High of test frequency range
Transmission Burst Length	msec	0.61	Limit ≤ 8msec

Test Mode: IEEE 802.11ax(HE20) - W53

Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5260	5300	5320	Low/Mid/High of test frequency range
Transmission Burst Length	msec	2.00	2.00	2.00	Limit ≤ 8msec

Test Mode: IEEE 802.11ax(HE40) - W53

Test Voltage		Normal Voltage		Remarks
Test Frequency	MHz	5270	5310	Low/Mid/High of test frequency range
Transmission Burst Length	msec	1.03	1.03	Limit ≤ 8msec

Test Mode: IEEE 802.11ax(HE80) - W53

Test Voltage		Normal Voltage	Remarks
Test Frequency	MHz	5290	Low/Mid/High of test frequency range
Transmission Burst Length	msec	0.53	Limit ≤ 8msec

Test Mode: IEEE 802.11ac(VHT160) - W52+W53

Test Voltage		Normal Voltage	Remarks
Test Frequency	MHz	5250	Low/Mid/High of test frequency range
Transmission Burst Length	msec	0.61	Limit \leq 8msec

Test Mode: IEEE 802.11ax(HE160) - W52+W53

Test Voltage		Normal Voltage	Remarks
Test Frequency	MHz	5250	Low/Mid/High of test frequency range
Transmission Burst Length	msec	0.30	Limit \leq 8msec

Test Mode:	IEEE 802.11a - W56
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5500	5600	5720	Low/Mid/High of test frequency range
Transmission Burst Length	msec	1.41	1.41	1.41	Limit ≤ 8msec

Test Mode:	IEEE 802.11ac(VHT20) - W56
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5500	5600	5720	Low/Mid/High of test frequency range
Transmission Burst Length	msec	1.33	1.33	1.33	Limit ≤ 8msec

Test Mode:	IEEE 802.11ac(VHT40) - W56
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5510	5590	5710	Low/Mid/High of test frequency range
Transmission Burst Length	msec	0.66	0.66	0.66	Limit ≤ 8msec

Test Mode:	IEEE 802.11ac(VHT80) - W56
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5530	5610	5690	Low/Mid/High of test frequency range
Transmission Burst Length	msec	0.61	0.61	0.61	Limit ≤ 8msec

Test Mode:	IEEE 802.11ac(VHT160) - W56
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5570			Low/Mid/High of test frequency range
Transmission Burst Length	msec	0.61			Limit ≤ 8msec

Test Mode:	IEEE 802.11ax(HE20) - W56
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5500	5600	5720	Low/Mid/High of test frequency range
Transmission Burst Length	msec	2.00	2.00	2.00	Limit ≤ 8msec

Test Mode:	IEEE 802.11ax(HE40) - W56
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5510	5590	5710	Low/Mid/High of test frequency range
Transmission Burst Length	msec	1.03	1.03	1.03	Limit ≤ 8msec

Test Mode:	IEEE 802.11ax(HE80) - W56
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5530	5610	5690	Low/Mid/High of test frequency range
Transmission Burst Length	msec	0.53	0.53	0.53	Limit ≤ 8msec

Test Mode:	IEEE 802.11ax(HE160) - W56
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Test Voltage		Normal Voltage		Remarks
Test Frequency	MHz	5570		Low/Mid/High of test frequency range
Transmission Burst Length	msec	0.30		Limit ≤ 8msec

APPENDIX H - CARRIER SENSE CAPABILITY

Test Mode:	IEEE 802.11a - W52
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5180	5200	5240	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ac(VHT20) - W52
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5180	5200	5240	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ac(VHT40) - W52
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Test Voltage		Normal Voltage		Remarks
Test Frequency	MHz	5190	5230	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ac(VHT80) - W52
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Test Voltage		Normal Voltage	Remarks
Test Frequency	MHz	5210	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ax(HE20) - W52
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5180	5200	5240	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ax(HE40) - W52
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Test Voltage		Normal Voltage		Remarks
Test Frequency	MHz	5190	5230	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ax(HE80) - W52
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Test Voltage		Normal Voltage	Remarks
Test Frequency	MHz	5210	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11a - W53
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5260	5300	5320	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ac(VHT20) - W53
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5260	5300	5320	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ac(VHT40) - W53
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5270		5310	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK		OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ac(VHT80) - W53
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5290			Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK			Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode: IEEE 802.11ax(HE20) - W53

Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5260	5300	5320	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode: IEEE 802.11ax(HE40) - W53

Test Voltage		Normal Voltage		Remarks
Test Frequency	MHz	5270	5310	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode: IEEE 802.11ax(HE80) - W53

Test Voltage		Normal Voltage	Remarks
Test Frequency	MHz	5290	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ac(VHT160) - W52+W53
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Test Voltage		Normal Voltage	Remarks
Test Frequency	MHz	5250	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	$\text{Pin} = 22.79 + \text{Gr} - 20 \cdot \log(\text{freq_MHz})$ [dBm]

Test Mode:	IEEE 802.11ax(HE160) - W52+W53
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Test Voltage		Normal Voltage	Remarks
Test Frequency	MHz	5250	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	$\text{Pin} = 22.79 + \text{Gr} - 20 \cdot \log(\text{freq_MHz})$ [dBm]

Test Mode: IEEE 802.11a - W56

Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5500	5600	5720	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode: IEEE 802.11ac(VHT20) - W56

Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5500	5600	5720	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode: IEEE 802.11ac(VHT40) - W56

Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5510	5590	5710	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode: IEEE 802.11ac(VHT80) - W56

Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5530	5610	5690	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode: IEEE 802.11ac(VHT160) - W56

Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5570			Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK			Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ax(HE20) - W56
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5500	5600	5720	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ax(HE40) - W56
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5510	5590	5710	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ax(HE80) - W56
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Test Voltage		Normal Voltage			Remarks
Test Frequency	MHz	5530	5610	5690	Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK	OK	OK	Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Test Mode:	IEEE 802.11ax(HE160) - W56
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Test Voltage		Normal Voltage		Remarks
Test Frequency	MHz	5570		Low/Mid/High of test level
Carrier Sense (100mV/m)	OK / NG	OK		Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

End of Test Report